BRUHAT BANGALORE MAHANAGARA PALIKE

WARD NO.07, BYATARAYANAPURA

Name of work:- Name of work: Improvements to Roads of BGS Layout in Ward No. 07, Byatarayanapura in Kodigehalli Sub Division.

P-code:-

Est cost:30.00 lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Improvements to Roads of BGS Layout in Ward No. 07, Byatarayanapura

								Construction Cost:	3000000.00
Sl. N	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.133, I.No.19.1 of PW, P&IWTD SR								
	CC Drain	Cum							
	Cross in Jakkur Layout		2	90.00	0.95	0.90	153.90		
							153.90	186.92	**28766.99**
	Basic rate	**82**							
	Loading and unloading with 10km lead=	**100**							
	Area Weightage 6%	**4.92**							
	Final Rate	**186.92**							
2	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)								
	Bed Concrete	Cum							
	Cross in Jakkur Layout		2	90.00	0.95	0.10	17.10		
							17.10	5348.76	**91463.80**
	Basic rate	**5046**							
	Area Weightage 6%	**302.76**							
	Final Rate	**5348.76**							
3	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.No.16, I.No.4.32 of PW, P&IWTD SR 2016-17)								
	CC Drain	Sqm							
	Cross in Jakkur Layout		8	90.00		0.60	432.00		
							432.00	387.96	**167598.72**
	Basic rate	**366**							
	Area Weightage 6%	**21.96**							
	Final Rate	**387.96**							

Sl. N	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
4	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6(P.No.13, I.No.4.11 of PW, P&IWTD SR 2016-17)								
	Bottom Raft	Cum							
	Cross in Jakkur Layout		2	90.00	0.75	0.15	20.25		
	Walls								
	Cross in Jakkur Layout		4	90.00	0.15	0.60	32.40		
							52.65	6371.66	335467.90
	Basic rate	**6011**							
	Area Weightage 6%	**360.66**							
	Final Rate	**6371.66**							
5	KSRB - 4.9.2: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. (P.No.17, I.No.4.46.3 of PW, P&IWTD SR 2016-17)								
	Consider 55Kgs/cum for Drain	Tonne		52.65	0.055	--	2.90		
							2.90	64243.42	186305.92
	Basic rate	**60607.00**							
	Area Weightage 6%	**3636.42**							
	Final Rate	**64243.42**							
6	Providing and fixing **RCC Precast cover slab of 100mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Cover Slab	Sqm							
	Cross in Jakkur Layout		2	90.00	0.75	--	135.00		
	Data rate						**135.00**	2100.00	283500.00

Sl. N	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
7	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.142, I.No.19.14 of PW,P&IWTD S.R 2016-17)								
	Bad Reaches	Cum							
			20	6.00	4.00	0.20	96.00		
			20	5.00	5.00	0.20	100.00		
							196.00	148.76	**29156.96**
	Basic rate	**46**							
	Loading and unloading with 10km lead=	**100**							
	Area Weightage 6%	**2.76**							
	Final Rate	**148.76**							
8	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.157, I.No.20.18 of PW,P&IWTD SR 2016-17)								
	Bad Reaches	Cum							
			20	2.20	4.00	0.20	35.20		
			20	1.50	5.00	0.20	30.00		
							65.20	1768.08	**115278.82**
	Basic rate	**1668**							
	Area Weightage 6%	**100.08**							
	Final Rate	**1768.08**							
9	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.160, I.No.21.6 of PW,P&IWTD SR								
	Bad Reaches	Sqm							
			20	2.20	4.00	--	176.00		
			20	1.50	5.00	--	150.00		
							326.00	27.56	8984.56
	Basic rate	**26**							
	Area Weightage 6%	**1.56**							
	Final Rate	**27.56**							

Sl. N	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
10	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.160, I.No.21.2 of PW,P&IWTD SR 2016-17)								
	Road Formation	Sqm							
	1st Main		1	190.00	6.50	--	1235.00		
	2nd Main		1	190.00	6.20	--	1178.00		
	3rd Main		1	105.00	6.50	--	682.50		
	1st Cross		1	90.00	6.20	--	558.00		
	2nd Cross		1	150.00	6.50	--	975.00		
							4628.50	3.18	14718.63
	Basic rate	**3**							
	Area Weightage 6%	**0.18**							
	Final Rate	**3.18**							
11	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.160 I.No.21.7 of PW P&IWTD SR of 2016-17)								
	For Laying BC	Sqm							
	1st Main		1	190.00	6.50	--	1235.00		
	2nd Main		1	190.00	6.20	--	1178.00		
	3rd Main		1	105.00	6.50	--	682.50		
	1st Cross		1	90.00	6.00	--	540.00		
	2nd Cross		1	150.00	6.50	--	975.00		
							4610.50	11.66	53758.43
	Basic rate	**11**							
	Area Weightage 6%	**0.66**							
	Final Rate	**11.66**							
12	KSRRB M500-19. Providing and laying bituminous concrete 40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 6% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.164 of I.No.21.22.6 in PW P&IWTD S.R.2016-17)								
	Road Formation	Cum							
	1st Main		1	190.00	6.50	0.04	49.40		
	2nd Main		1	190.00	6.20	0.04	47.12		
	3rd Main		1	105.00	6.50	0.04	27.30		
	1st Cross		1	90.00	6.00	0.04	21.60		
	2nd Cross		1	150.00	6.50	0.04	39.00		
							184.42	7083.98	1306427.59
	Basic rate	**6683**							

Sl. N	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	Area Weightage 6%	400.98							
	Final Rate	7083.98							
13	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.197, I.No.24.15 of PW,P&IWTD SR 2016-17)								
	Edge line								
			2	725.00	0.10	--	145.00		
							145.00	542.72	78694.40
							Total Construction Cost		2700122.72
14							KRIDL Charges @ 10%		270012.27
15							Labour Cess @ 1%		27001.23
								Sub Total	2997136.22
16							Miscellaneous and rounding off		2863.78
								Total	3000000.00

Certificate.

1 The workspot was inspected and work is found to be necessary.
2 The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
4 The provisions made in the estimate are necessary and essential.

Assistant Engineer

Assistant Executive Engineer

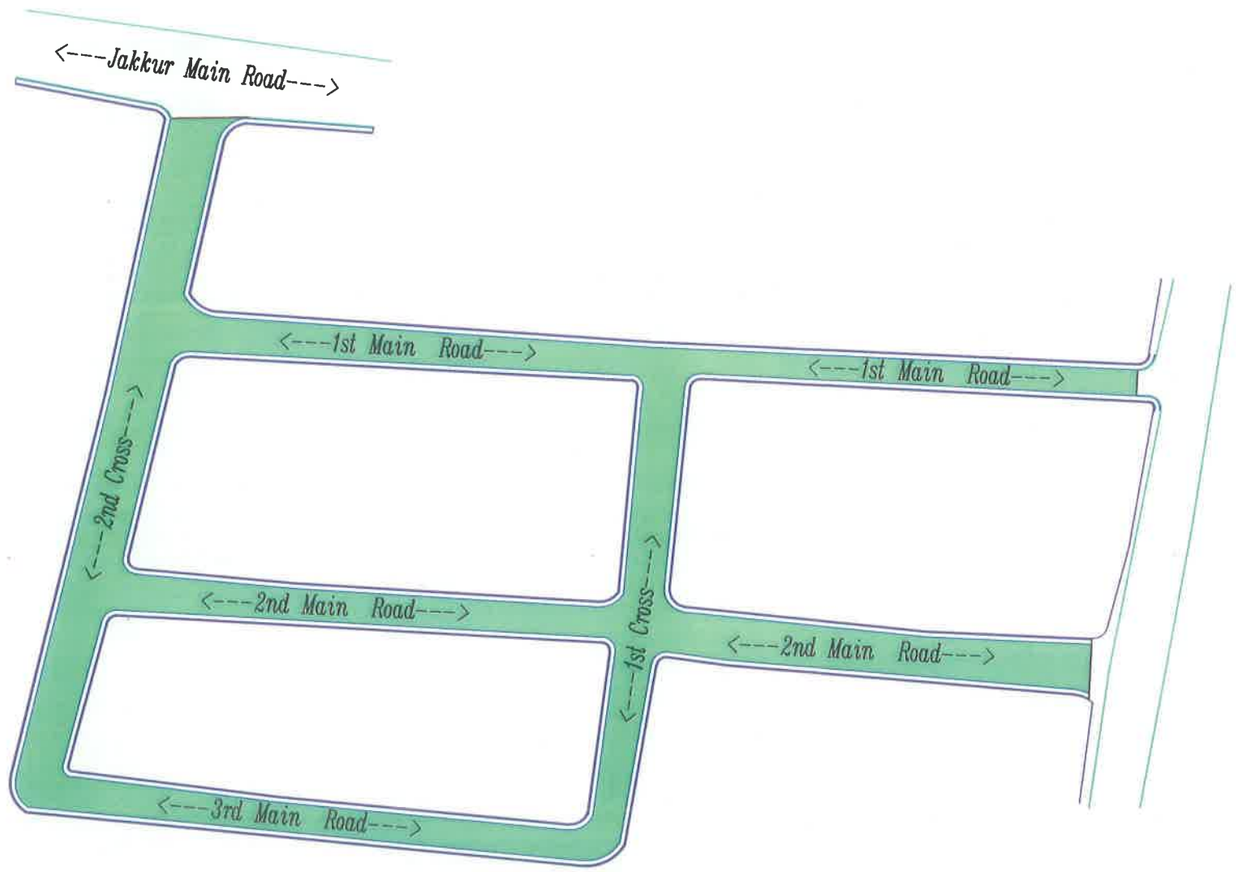
Executive Engineer 23/12

ADMINISTRATIVE APPROVAL
Accorded For Rs. Thirty lakh only
Head of A/c. P-3333
Div. Ref. No. 145/17-18 Date. 23/12/17
AE 23/12
EE(BTP) 23/12

Technical Sanction
Accorded For 30-00 lakhs
Head of A/C. P3333
CER NO : 530 Dt: 12 01 18
[TA] CE (YNK)

BRUHAT BANGALORE MAHANAGARA PALIKE

Improvements to Roads of BGS Layout in Ward No. 07, Byatarayanapura



Road Name	Length
1st Main	193m
2nd Main	190m
3rd Main	105m
1st Cross	90m
2nd Cross	148m

BGS LAYOUT

NOTE:-

1. ALL DIMENSION & LEVELS ARE Mts. UNLESS OTHERWISE MENTIONED.

DATE	No. OF PRINTS	PRINTS ISSUED TO	SIGN

DATE	REVISION	DESCRIPTIONS	SIGN

LEGEND:-

Road

Drain

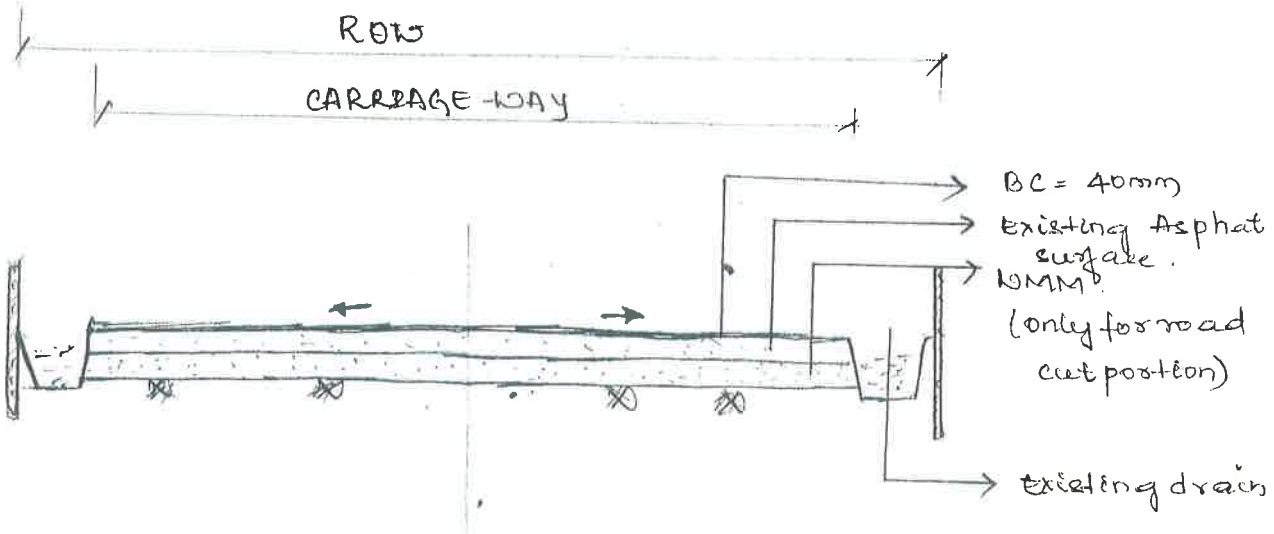
Boundary

Approved N.D
AE(W2)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

TITLE: STRIP PLAN

1/1



CROSS - SECTION

Applied. N.D
Acted)

Assistant Executive Engineer
Kodigehalli Sub Division
Rajiv Gandhi Nagara Palike
Bangalore - 560 092